ELSEVIER

Journal of Alloys and Compounds 303–304 (2000) 529–530

Journal of ALLOYS AND COMPOUNDS

www.elsevier.com/locate/jallcom

Author Index of Volumes 303–304

Åberg, D., 280, 345
Abernathy, C.R., 331
Adachi, G., 303
Adachi, G.-y., 49
Ahn, K., 252, 257
Aka, G., 401
Ali, N., 265, 285
Allen, P.G., 182
Almeida, V.F., 524
Alves, S., 364
André, N., 66
Antonio, M.R., 509
Arzgatkina, A.A., 421
Aspinall, H.C., 173
Assefa, Z., 440
Augé, F., 401

Baaden, M., 104
Balembois, F., 401
Banfield, J.F., 30
Barbier, B., 270
Basun, S.A., 198
Beitz, J.V., 137
Belarouci, A., 207
Bénitez, J.M., 401
Bernhoeft, N., 472
Berny, F., 104
Binnemans, K., 125, 146, 387
Boehme, C., 104
Boothroyd, A.T., 489
Borges, F.M.M., 142
Bray, K.L., 37
Brito, H.F., 336, 364
Brun, A., 401
Bünzli, J.-C.G., 66, 94
Burdick, G.W., 376, 383
But, S., 132

Canfield, P.C., 223, 289, 505
Carvalho, C.C., 162
Cascales, C., 349
Chien, C.L., 245
Choi, J., 198
Chtoutsa, M.G., 421
Cicillini, S.A., 316
Clark, S.B., 37
Couwenberg, I., 387
Croft, M., 465
Crooks, S.M., 376, 383

Davidovic', D., 245
De Leebeeck, H., 387
de Oliveira, W., 178
de Paz, J.R., 293
de Souza, H.K.S., 168
de Souza Maia, A., 178

Digman, M.A., 432
Duan, C.-K., 371
Dubenko, I., 285
Dubenko, I.S., 265
Durisch, W., 340
Dwyer, J.L.M., 173

Edder, C., 94
Edvardsson, S., 280, 345
Elhabiri, M., 66
Elsegood, M.R.J., 83
Ensor, D.D., 137
e Silva, F.R.G., 364

Felinto, M.C.F.C., 524
Felser, C., 252
Fernandez, F.E., 360
Field, S.B., 245
Fisher, I.R., 223, 289
Flórez, A., 355
Flórez, M., 355
Funasaka, H., 151
Furrer, A., 228

Gaidukova, I.Yu., 285
Gawryszewska, P., 325
Georges, P., 401
Ghajari, N., 112
Goldman, A.I., 223
Gomes Fernandes, J.D., 168
Gönen, Z.S., 416
Goodenough, J.B., 454
Görller-Walrand, C., 387
Grabko, A.I., 421
Greenblatt, M., 465
Greeves, N., 173
Grob, B., 340
Gschneidner Jr., K.A., 214
Güdel, H.U., 307
Gulev, B.F., 426
Guy, S., 207

Haase, M., 191
Haire, R.G., 440
Halevy, I., 270
Happek, U., 198
Hayashi, K., 276
Hegger, H., 239
Hillier, A.C., 83
Hiraiwa, M., 303
Hölsä, J., 498
Hömmerich, U., 331
Hou, Z., 75
Huang, K., 454
Huskowska, E., 325

Ibers, J.A., 432
Imamura, H., 514
Imanaka, N., 303
Inagaki, M., 262
Ishiki, R.R., 316
Islam, Z., 223
Isolani, P.C., 162
Ivanov, E.N., 421
Ivtchenko, V.V., 214

Jacquet, M., 401
Jacquier, B., 207
Jensen, M.P., 137
Jerez, V.A., 355

Kahn-Harari, A., 401
Kardapolov, A.V., 421
Karino, J., 151
Kida, Y., 276
Kizilyalli, M., 416
Kobayashi, Y., 303
Kornowski, A., 191
Kosynkin, V.D., 421
Koyama, T., 151
Kramer, M.J., 223
Krebs, J.K., 198
Kremer, R.K., 252, 257
Kuznetsov, D.G., 426
Kwei, G.H., 239

Lacorre, P., 228
Lamminmäki, R.-J., 498
Lander, G.H., 232
Lastusaari, M., 498
Le Nain, N., 401
Lebrasseur, E., 207
Legendziewicz, J., 325
Leonard, M., 285
Leonard, M.L., 265
Levin, E.M., 214
Lewis, M.A., 42
Lexa, D., 42
Li, S.T., 360
Lis, S., 132
Liu, G.K., 360
Liu, H., 360
Liu, S.Y., 83
Löhneysen, H.v., 480
Longo, R.L., 364
Loong, C.-K., 60
Louca, D., 239
Lozano, G., 349

Machida, K.-i., 49
MacKenzie, J.D., 331

Malta, O.L., 336, 364
Maple, M.B., 1
Maraschin, V., 112
Marinho, E.P., 116
Markosyan, A.S., 285
Martello, P., 387
Martínez, J.L., 293
Masui, T., 49
Mattausch, H., 257
Matuda, K., 56
Maupin, C.L., 325
Mayor, J.-C., 340
Melo, D.M.A., 116, 142, 157, 168
Menchini, F., 207
Menezes, J.F.S., 336, 364
Meyer, G., 409
Meyssamy, H., 191
Minaev, A.A., 426
Miranda Jr., P., 162
Morrison, H.G., 440
Morss, L.R., 42, 137
Moser, D.F., 121
Mougel, F., 401
Movshovich, R., 239, 298
Muller, G., 66
Müller, K.A., 228
Muzet, N., 104

Narducci, A.A., 432
Nozary, H., 94

Ohsumi, H., 276
Ohta, M., 320
Okazaki, Y., 303
Oliveira, V.S., 157
Ozaki, T., 49
Ozawa, M., 56, 60, 262
Özbayoğlu, G., 520

Pamuk, H.Ö., 416
Panitz, J.-C., 340
Paolasini, L., 232
Pecharsky, A.O., 214
Pecharsky, V.K., 214
Pedrosa, M.F.F., 142
Pelenc, D., 401
Pereira Alves, N., 178
Peterson, J.R., 440
Petrovic, C., 239
Piguet, C., 66, 94
Pollnau, M., 307
Porcher, P., 349, 498

Raukas, M., 198
Reich, D.H., 245

Elsevier Science S.A.
PII: S0925-8388(00)00877-X

Reid, M.F., 371, 376, 383
Reis, M.S., 285
Renaud, F., 94
Richardson, F.S., 376
Richmann, M.K., 42
Riedener, T., 37
Riehl, J.P., 325
Rigault, S., 94
Riwotzki, K., 191
Rocha da Silva, Z., 157
Rocha, G.B., 364
Runde, W., 182

Sáez-Puche, R., 293, 498
Sakata, Y., 514
Salin, F., 401
Sano, Y., 151
Sarrao, J.L., 239
Scatena, H., 142
Schäfer, W., 270
Schröder, A., 480
Schurhammer, R., 104
Sella, A., 83
Seo, J.T., 331
Serra, O.A., 316
Seshadri, R., 252
Shuk, P., 465
Silber, H.B., 112
Silevitch, D.M., 245
Silva, A.O., 142
Simon, A., 252, 257
Sipes, A.B., 432
Skanthakumar, S., 298
Smith, P.M., 173
Soderholm, L., 298, 509
Stassis, C., 223
Stockert, O., 480
Strässle, T., 228
Summerscales, R.L., 376
Suzuki, M., 514
Suzuki, S., 56, 262
Sysina, N.A., 421

Tajima, K., 276
Takami, M., 320
Tamura, S., 303
Taunton, A.E., 30
Thaik, M., 331
Thompson, J.D., 239
Thompson, L.C., 121
Tsuchiya, S., 514

Ueda, T., 303
Ümit Atalay, M., 520

Van Deun, R., 146
Van Pelt, C., 182
Vicentini, G., 116, 162, 168
Vivien, D., 401

Wakatsuki, Y., 75
Welch, S.A., 30
Wickleder, M.S., 445
Wiener, T.A., 289, 505
Williams, C.W., 509
Wipff, G., 104

Yan, K., 371
Yang, Y., 432
Yasuda, M., 320
Yeh, M., 37
Yin, M., 371
Young Jr., V.G., 121

Zaldo, C., 349
Zarestky, J., 223
Zavada, J.M., 331
Zayhowski, J.J., 392
Zinner, K., 116, 157, 168
Zinner, L.B., 116, 142, 157, 162, 168
Zukerman-Schpector, J., 116, 162, 168

ELSEVIER

Journal of Alloys and Compounds 303–304 (2000) 531–538

Journal of ALLOYS AND COMPOUNDS

www.elsevier.com/locate/jallcom

Subject Index of Volumes 303–304

Actinide
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
Alkaline earth halides
alkaline earth/rare earth halides and related systems 409
Americium
aqueous complexation of trivalent lanthanide and actinide cations by *N,N,N′,N′*-tetrakis(2-pyridylmethyl)ethylenediamine 137
Amidosulfates
syntheses, crystal structures, and thermal behavior of the rare earth amidosulfates $M(NH_2SO_3)_3 \cdot 2H_2O$ (M=Pr, Nd, Sm) 445
Amplifiers
rare earth-doped confined structures for amplifiers and lasers 207
$[AmP_5W_{30}O_{110}]^{12-}$
the formation and stability of $[EuP_5W_{30}O_{110}]^{12-}$ and $[AmP_5W_{30}O_{110}]^{12-}$ 509
Anode
a solid oxide fuel cell based on Sr- and Mg-doped $LaGaO_3$ electrolyte: the role of a rare-earth oxide buffer 454
Antiferromagnetic materials
resonant X-ray magnetic scattering: antiferromagnetic metals 472
Antiferromagnetic order
magnetism of $RCaCrO_4$ (R: Pr, Nd, Sm and Eu) oxides 293
Antimonides
investigation of the ferromagnetism in $RCrSb_3$ (R=La, Ce, Pr, Nd) 265
Attrition scrubbing
beneficiation of bastnaesite by a multi-gravity separator 520
Automotive exhaust
the role of rare earth dopants in nanophase zirconia catalysts for automotive emission control 60
Automotive exhaust catalysts
preparation of ceria–zirconia sub-catalysts for automotive exhaust cleaning 49
2-Azacyclononanone
synthesis, characterization and structure of lanthanide nitrate complexes with 2-azacyclononanone (AZA) 168

Barocaloric effect
a novel principle for cooling by adiabatic pressure application in rare-earth compounds 228
Bastnaesite
beneficiation of bastnaesite by a multi-gravity separator 520
Bimetallic catalyst
hydrogenation behavior of propyne on supported Eu–Pd and Yb–Pd bimetallic catalysts with anomalous hydrogen uptake 514
Binaphthol
lanthanide complexes with C_2 symmetric ligands for use in enantioselective organic synthesis 173
Bromide
near-infrared to visible photon upconversion processes in lanthanide doped chloride, bromide and iodide lattices 307

Buffer layer
a solid oxide fuel cell based on Sr- and Mg-doped $LaGaO_3$ electrolyte: the role of a rare-earth oxide buffer 454

Calix[*n*]arenes
solvent extraction separation of uranium (VI) with acetatecalix[*n*]arene and β-diketone (HTTA) 524
Candoluminescence
a Raman spectroscopic study of rare earth mixed oxides 340
Carbonate
spectroscopic characterization of trivalent f-element (Eu, Am) solid carbonates 182
Catalysis
microstructure and oxygen release properties of catalytic alumina-supported CeO_2–ZrO_2 powders 56
lanthanide complexes with C_2 symmetric ligands for use in enantioselective organic synthesis 173
Catalytic converter
preparation of ceria–zirconia sub-catalysts for automotive exhaust cleaning 49
Cathode
a solid oxide fuel cell based on Sr- and Mg-doped $LaGaO_3$ electrolyte: the role of a rare-earth oxide buffer 454
CeO_2
microstructure and oxygen release properties of catalytic alumina-supported CeO_2–ZrO_2 powders 56
Ceramic nuclear waste
cerium, uranium, and plutonium behavior in glass-bonded sodalite, a ceramic nuclear waste form 42
Cerium
cerium, uranium, and plutonium behavior in glass-bonded sodalite, a ceramic nuclear waste form 42
iron magnetism in cubic Laves phase itinerant ferromagnets 232
Cerium dioxide powder
the study of process production of polishing powder based on cerium dioxide 421
Cerium oxide
preparation of ceria–zirconia sub-catalysts for automotive exhaust cleaning 49
Chalcogenolate
the use of pyrazolylborates as ancillaries for lanthanide complexes 83
Chemical synthesis
C_5Me_5/ER-Ligated samarium(II) complexes (ER=OAr, SAr, NR^1R^2): a new type of olefin polymerization catalysts 75
Raman and X-ray diffraction studies of terbium trichloride: phase characterization and temperature relationship 440
Chloride
near-infrared to visible photon upconversion processes in lanthanide doped chloride, bromide and iodide lattices 307
Chlorides
synthesis and characterization of chlorovinylcyclopentadienyl lanthanides 178

Elsevier Science S.A.
PII: S0925-8388(00)00878-1

Circular dichroism
fitting of parameters to represent the circular dichroism and transition intensities of $4f^N$–$4f^N$ transitions of lanthanide ions 383
Circularly polarized luminescence
the measurement of circularly polarized luminescence from racemic lanthanide complexes prepared in sol-gels 325
CMPO
NMR study of lanthanide (III) nitrate complexes in CMPO/TBP systems 151
Colloidal solutions
synthesis and properties of colloidal lanthanide-doped nanocrystals 191
Combustion synthesis
a Raman spectroscopic study of rare earth mixed oxides 340
Complexation
aqueous complexation of trivalent lanthanide and actinide cations by *N,N,N′,N′*-tetrakis(2-pyridylmethyl)ethylenediamine 137
Copolymerization
C_5Me_5/ER-Ligated samarium(II) complexes (ER=OAr, SAr, NR^1R^2): a new type of olefin polymerization catalysts 75
Correlation
the crystal dependent open-shell polarizability of F-elements: higher order contributions 345
Crystal and ligand fields
magnetic properties of Dy in $Pb_2Sr_2DyCu_3O_8$ 298
Crystal field
the energy matrix using determinantal product states applied to Ho:YAG 280
Crystal field analysis
measurement and simulation of the energy levels of $R=Pr^{3+}$ and Nd^{3+} in $GaRGe_2O_7$ 349
Crystal field hamiltonian
the crystal dependent open-shell polarizability of F-elements: higher order contributions 345
Crystal field parameters
measurement and simulation of the energy levels of $R=Pr^{3+}$ and Nd^{3+} in $GaRGe_2O_7$ 349
Crystal growth
magnetic properties of icosahedral R–Mg–Zn quasicrystals (R=Y, Tb, Dy, Ho and Er) 223
the magnetic characteristics of the $Tb(Ni_{1-x}Co_x)_2Ge_2$ system 289
magnetic phase diagram of flux-grown single crystals of CeSb 505
Crystal structures
C_5Me_5/ER-Ligated samarium(II) complexes (ER=OAr, SAr, NR^1R^2): a new type of olefin polymerization catalysts 75
the nonpareil $R_5(Si_xGe_{1-x})_4$ phases 214
Crystalline electric field
a novel principle for cooling by adiabatic pressure application in rare-earth compounds 228
Cycloning
beneficiation of bastnaesite by a multi-gravity separator 520

Dating
thermoluminescence properties of SiO_2: Al, Eu 320
Debye peak
dynamic modulus relaxation of $ErBa_2Cu_3O_{6+x}$ near the orthorhombic to tetragonal phase transition at 200 kHz 262
Debye temperature
the nonpareil $R_5(Si_xGe_{1-x})_4$ phases 214
Diffraction
magnetic fluctuations in $CeCu_{6-x}Au_x$ at the nonmagnetic–magnetic quantum phase transition 480
Dimethyl sulfoxide
luminescent properties of diketonates of trivalent europium with dimethyl sulfoxide 336
Diode-pumped laser
passively *Q*-switched Nd:YAG microchip lasers and applications 392
overview of the laser and non-linear optical properties of calcium-gadolinium-oxo-borate $Ca_4GdO(BO_3)_3$ 401
Dissolution
geomicrobiological controls on light rare earth element, Y and Ba distributions during granite weathering and soil formation 30
1,3-Dithiane-1-oxide
synthesis and structure of lanthanide(III) picrate complexes with 1,3-dithiane-1-oxide 162
Double oxides
synthesis and properties of some insoluble high-temperature neodymium ceramic compounds 426
Dye stuff
stilbazolium dyes containing rare-earth ions 125

Electric-dipole transitions
electric-dipole $4f^N$–$4f^N$ transition intensity parametrizations for lanthanides: multiple indistinguishable parameter sets and multiple local minima 376
Electronic conductivity
hydrothermal synthesis and properties of $Ce_{1-x}Eu_xO_{2-\delta}$ solid solutions 465
Electronic specific heat constant
the nonpareil $R_5(Si_xGe_{1-x})_4$ phases 214
Electronic transport
magnetic phase diagram of flux-grown single crystals of CeSb 505
Emission control
the role of rare earth dopants in nanophase zirconia catalysts for automotive emission control 60
Emission microscopy
a Raman spectroscopic study of rare earth mixed oxides 340
Emission quantum yield
emission quantum yield of europium (III) mixed complexes with thenoyltrifluoroacetonate and some aromatic ligands 364
Enantioselective
lanthanide complexes with C_2 symmetric ligands for use in enantioselective organic synthesis 173
Energy matrix
the energy matrix using determinantal product states applied to Ho:YAG 280
Energy transfer
emission quantum yield of europium (III) mixed complexes with thenoyltrifluoroacetonate and some aromatic ligands 364
surface and size effects and energy transfer phenomenon on the luminescence of nanocrystalline X_1–Y_2SiO_5:Eu^{3+} 371
$ErBa_2Cu_3O_{6+x}$
dynamic modulus relaxation of $ErBa_2Cu_3O_{6+x}$ near the orthorhombic to tetragonal phase transition at 200 kHz 262
Erbium doping
near infrared (1.54 μm) luminescence properties of erbium doped gallium nitride 331
$ErFe_7Al_5$
$ThMn_{12}$-type magnetic $ErFe_7Al_5$ and non-magnetic YFe_7Al_5 studied by X-ray and neutron diffraction 270
ESR
thermoluminescence properties of SiO_2: Al, Eu 320
$Eu(DMH)_3$·dipy
structures of the 1,10-phenanthroline and 2,2′-dipyridyl adducts of tris(2,6-dimethylheptane-3,5-dionato)europium(III) 121
Eu^{3+} in SBN film
effects of thermal annealing on spectroscopic properties of Eu^{3+} in $Sr_{1-x}B_xNb_2O_6$ films 360
$Eu(DMH)_3$·o-phen
structures of the 1,10-phenanthroline and 2,2′-dipyridyl adducts of tris(2,6-dimethylheptane-3,5-dionato)europium(III) 121

$[EuP_5W_{30}O_{110}]^{12-}$
the formation and stability of $[EuP_5W_{30}O_{110}]^{12-}$ and $[AmP_5W_{30}O_{110}]^{12-}$ 509
Europium
spectroscopic characterization of trivalent f-element (Eu, Am) solid carbonates 182
a new procedure to obtain Eu^{3+} doped oxide and oxosalt phosphors 316
luminescent properties of diketonates of trivalent europium with dimethyl sulfoxide 336
Europium–acetate complexation
a spectroscopic investigation of temperature effects on solution complexation in the Eu^{3+}–acetate system 37
Europium complexes
Eu(III) complexation constants with glutamine and serine in aqueous methanol 112
Europium(III)
hydrated neodymium(III) and europium(III) picrate complexes with pyrazine-*N*-oxide 116
EXAFS
spectroscopic characterization of trivalent f-element (Eu, Am) solid carbonates 182
Exchange and superexchange (D)
neutron and X-ray scattering studies of magnetism in non-superconducting $PrBa_2Cu_3O_{6+x}$ 489

Ferromagnetism
giant negative magnetoresistance in GdI_2 252
Florencite
geomicrobiological controls on light rare earth element, Y and Ba distributions during granite weathering and soil formation 30
Flouroindate glass
optical transitions probabilities of Dy^{3+} ions in fluoroindate glass 355
Fluorescence
spectroscopic characterization of trivalent f-element (Eu, Am) solid carbonates 182
Fluoride planar waveguides
rare earth-doped confined structures for amplifiers and lasers 207
Fluxionality
the use of pyrazolylborates as ancillaries for lanthanide complexes 83
Formation
the formation and stability of $[EuP_5W_{30}O_{110}]^{12-}$ and $[AmP_5W_{30}O_{110}]^{12-}$ 509
Fractionation
geomicrobiological controls on light rare earth element, Y and Ba distributions during granite weathering and soil formation 30
Fuel cell
a solid oxide fuel cell based on Sr- and Mg-doped $LaGaO_3$ electrolyte: the role of a rare-earth oxide buffer 454
Functional centres
trivalent lanthanide ions: versatile coordination centers with unique spectroscopic and magnetic properties 66

Gallium nitride
near infrared (1.54 μm) luminescence properties of erbium doped gallium nitride 331
GdI_2
giant negative magnetoresistance in GdI_2 252
Giant negative magnetoresistance
giant negative magnetoresistance in GdI_2 252
Glass-bonded sodalite
cerium, uranium, and plutonium behavior in glass-bonded sodalite, a ceramic nuclear waste form 42
Glutamine
Eu(III) complexation constants with glutamine and serine in aqueous methanol 112
Green solid-state laser
overview of the laser and non-linear optical properties of calcium-gadolinium-oxo-borate $Ca_4GdO(BO_3)_3$ 401

Heavy fermion
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
Heavy fermions
competing ground states in heavy-fermion materials 239
magnetic fluctuations in $CeCu_{6-x}Au_x$ at the nonmagnetic–magnetic quantum phase transition 480
Helicate
tridentate binding units as structural patterns for the design of nine-coordinate lanthanide building blocks with predetermined properties 94
Hemicyanine
stilbazolium dyes containing rare-earth ions 125
Hexamethylphosporamide
preparation and properties of complexes between rare earth trifluoroacetates and hexamethylphosphoramide (HMPA) 157
High-T_c superconductors
magnetic properties of Dy in $Pb_2Sr_2DyCu_3O_8$ 298
High-T_c superconductors (A)
neutron and X-ray scattering studies of magnetism in non-superconducting $PrBa_2Cu_3O_{6+x}$ 489
Hydrogenation of propyne
hydrogenation behavior of propyne on supported Eu–Pd and Yb–Pd bimetallic catalysts with anomalous hydrogen uptake 514
Hydrogen uptake
hydrogenation behavior of propyne on supported Eu–Pd and Yb–Pd bimetallic catalysts with anomalous hydrogen uptake 514
Hydrothermal synthesis
hydrothermal synthesis and properties of $Ce_{1-x}Eu_xO_{2-\delta}$ solid solutions 465

Inelastic light scattering
Raman and X-ray diffraction studies of terbium trichloride: phase characterization and temperature relationship 440
Infrared
synthesis and characterization of chlorovinylcyclopentadienyl lanthanides 178
Inner sphere complexes
Eu(III) complexation constants with glutamine and serine in aqueous methanol 112
Insulators
electron transfer processes in rare earth doped insulators 198
Intermetallics
$ThMn_{12}$-type magnetic $ErFe_7Al_5$ and non-magnetic YFe_7Al_5 studied by X-ray and neutron diffraction 270
Internal friction $LiNbO_3$ composite bar method
dynamic modulus relaxation of $ErBa_2Cu_3O_{6+x}$ near the orthorhombic to tetragonal phase transition at 200 kHz 262
Iodide
near-infrared to visible photon upconversion processes in lanthanide doped chloride, bromide and iodide lattices 307
Ion conduction
trivalent rare earth ion conduction in the scandium tungstate type structure 303
Ionic conductivity
hydrothermal synthesis and properties of $Ce_{1-x}Eu_xO_{2-\delta}$ solid solutions 465
Ionophores
interaction of trivalent lanthanide cations with phosphoryl derivatives, amide, anisole, pyridine and triazine ligands: a quantum mechanics study 104
Itinerant magnets
iron magnetism in cubic Laves phase itinerant ferromagnets 232

Judd–Ofelt theory
spectroscopic study of neodymium soaps in 1-pentanol 387

Kinetic parameters
kinetic study of the thermal decomposition of the compound of terbium(III) trifluoromethanesulfonate and hexamethylphosphoramide (HMPA) employing both Zsakó's and nonlinear methods 142
Kondo effect
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
Kondo effects
competing ground states in heavy-fermion materials 239
Kondo effects phase transitions
magnetic fluctuations in $CeCu_{6-x}Au_x$ at the nonmagnetic–magnetic quantum phase transition 480

Lanthanide
tridentate binding units as structural patterns for the design of nine-coordinate lanthanide building blocks with predetermined properties 94
NMR study of lanthanide (III) nitrate complexes in CMPO/TBP systems 151
lanthanide complexes with C_2 symmetric ligands for use in enantioselective organic synthesis 173
hydrogenation behavior of propyne on supported Eu–Pd and Yb–Pd bimetallic catalysts with anomalous hydrogen uptake 514
Lanthanide ions
electric-dipole $4f^N$–$4f^N$ transition intensity parametrizations for lanthanides: multiple indistinguishable parameter sets and multiple local minima 376
Lanthanides
C_5Me_5/ER-Ligated samarium(II) complexes (ER=OAr, SAr, NR^1R^2): a new type of olefin polymerization catalysts 75
interaction of trivalent lanthanide cations with phosphoryl derivatives, amide, anisole, pyridine and triazine ligands: a quantum mechanics study 104
stilbazolium dyes containing rare-earth ions 125
aqueous complexation of trivalent lanthanide and actinide cations by *N,N,N′,N′*-tetrakis(2-pyridylmethyl)ethylenediamine 137
mesomorphic lanthanide complexes with azomethine ligands 146
preparation and properties of complexes between rare earth trifluoroacetates and hexamethylphosphoramide (HMPA) 157
synthesis and structure of lanthanide(III) picrate complexes with 1,3-dithiane-1-oxide 162
synthesis, characterization and structure of lanthanide nitrate complexes with 2-azacyclononanone (AZA) 168
near-infrared to visible photon upconversion processes in lanthanide doped chloride, bromide and iodide lattices 307
spectroscopic study of neodymium soaps in 1-pentanol 387
syntheses, crystal structures, and thermal behavior of the rare earth amidosulfates $M(NH_2SO_3)_3 \cdot 2H_2O$ (M=Pr, Nd, Sm) 445
Lanthanides-doped phosphates/vanadates
synthesis and properties of colloidal lanthanide-doped nanocrystals 191
Lanthanum gallate
a solid oxide fuel cell based on Sr- and Mg-doped $LaGaO_3$ electrolyte: the role of a rare-earth oxide buffer 454
Laser spectroscopy
effects of thermal annealing on spectroscopic properties of Eu^{3+} in $Sr_{1-x}B_xNb_2O_6$ films 360
Lasers
rare earth-doped confined structures for amplifiers and lasers 207
Lattice modulation
magnetostriction of Dy and Ho studied by X-ray diffraction 276
L edges
resonant X-ray magnetic scattering: antiferromagnetic metals 472

Liquid–liquid ion extraction
interaction of trivalent lanthanide cations with phosphoryl derivatives, amide, anisole, pyridine and triazine ligands: a quantum mechanics study 104
Liquid crystals
mesomorphic lanthanide complexes with azomethine ligands 146
Luminescence
a new procedure to obtain Eu^{3+} doped oxide and oxosalt phosphors 316
surface and size effects and energy transfer phenomenon on the luminescence of nanocrystalline X_1–Y_2SiO_5:Eu^{3+} 371
Luminescence spectroscopy
a spectroscopic investigation of temperature effects on solution complexation in the Eu^{3+}–acetate system 37
structures of the 1,10-phenanthroline and 2,2′-dipyridyl adducts of tris(2,6-dimethylheptane-3,5-dionato)europium(III) 121

Magnetically ordered materials
evolution of the magnetic behavior of the Co subsystem in YCo_5 caused by small variations in stoichiometry and Al substitution 285
the magnetic characteristics of the $Tb(Ni_{1-x}Co_x)_2Ge_2$ system 289
magnetic properties of Dy in $Pb_2Sr_2DyCu_3O_8$ 298
magnetic fluctuations in $CeCu_{6-x}Au_x$ at the nonmagnetic–magnetic quantum phase transition 480
magnetic phase diagram of flux-grown single crystals of CeSb 505
Magnetically ordered materials (A)
neutron and X-ray scattering studies of magnetism in non-superconducting $PrBa_2Cu_3O_{6+x}$ 489
Magnetic measurements
magnetic properties of icosahedral R–Mg–Zn quasicrystals (R=Y, Tb, Dy, Ho and Er) 223
Magnetic moments
$ThMn_{12}$-type magnetic $ErFe_7Al_5$ and non-magnetic YFe_7Al_5 studied by X-ray and neutron diffraction 270
Magnetic probes
trivalent lanthanide ions: versatile coordination centers with unique spectroscopic and magnetic properties 66
Magnetic properties
the nonpareil $R_5(Si_xGe_{1-x})_4$ phases 214
Magnetic structure
$ThMn_{12}$-type magnetic $ErFe_7Al_5$ and non-magnetic YFe_7Al_5 studied by X-ray and neutron diffraction 270
Magnetism
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
investigation of the ferromagnetism in $RCrSb_3$ (R=La, Ce, Pr, Nd) 265
Magnetization
evolution of the magnetic behavior of the Co subsystem in YCo_5 caused by small variations in stoichiometry and Al substitution 285
the magnetic characteristics of the $Tb(Ni_{1-x}Co_x)_2Ge_2$ system 289
magnetic phase diagram of flux-grown single crystals of CeSb 505
Magnetocaloric effect
the nonpareil $R_5(Si_xGe_{1-x})_4$ phases 214
Magnetoresistance
investigation of the ferromagnetism in $RCrSb_3$ (R=La, Ce, Pr, Nd) 265
Magnetostriction
magnetostriction of Dy and Ho studied by X-ray diffraction 276
Metallomesogens
mesomorphic lanthanide complexes with azomethine ligands 146
evolution of the magnetic behavior of the Co subsystem in YCo_5 caused by small variations in stoichiometry and Al substitution 285

Metal soaps
spectroscopic study of neodymium soaps in 1-pentanol 387
Metals
magnetostriction of Dy and Ho studied by X-ray diffraction 276
Microorganisms
geomicrobiological controls on light rare earth element, Y and Ba distributions during granite weathering and soil formation 30
Minima
fitting of parameters to represent the circular dichroism and transition intensities of $4f^N$–$4f^N$ transitions of lanthanide ions 383
Molybdate
trivalent rare earth ion conduction in the scandium tungstate type structure 303
Multi-gravity separator
beneficiation of bastnaesite by a multi-gravity separator 520
Multiple indistinguishable parameter sets
electric-dipole $4f^N$–$4f^N$ transition intensity parametrizations for lanthanides: multiple indistinguishable parameter sets and multiple local minima 376

Na_2GdOPO_4
synthesis and characterization of Na_2GdOPO_4 and Na_2LaOPO_4 416
Na_2LaOPO_4
synthesis and characterization of Na_2GdOPO_4 and Na_2LaOPO_4 416
Nanocrystal
surface and size effects and energy transfer phenomenon on the luminescence of nanocrystalline X_1–Y_2SiO_5:Eu^{3+} 371
Nanocrystals
synthesis and properties of colloidal lanthanide-doped nanocrystals 191
Nanostructures
disorder and correlations in extended superconducting nanostructures 245
Narrow band
resonant X-ray magnetic scattering: antiferromagnetic metals 472
Neodymium compounds
synthesis and properties of some insoluble high-temperature neodymium ceramic compounds 426
Neodymium(III)
hydrated neodymium(III) and europium(III) picrate complexes with pyrazine-*N*-oxide 116
Neutron diffraction
competing ground states in heavy-fermion materials 239
superconductivity in layered lanthanum carbide halides: $La_2C_2(X,X')_2$ (X,X′=Cl, Br, I) 257
$ThMn_{12}$-type magnetic $ErFe_7Al_5$ and non-magnetic YFe_7Al_5 studied by X-ray and neutron diffraction 270
Neutron inelastic scattering
iron magnetism in cubic Laves phase itinerant ferromagnets 232
Neutron scattering
magnetic fluctuations in $CeCu_{6-x}Au_x$ at the nonmagnetic–magnetic quantum phase transition 480
Neutron scattering (E)
neutron and X-ray scattering studies of magnetism in non-superconducting $PrBa_2Cu_3O_{6+x}$ 489
Non-Fermi liquid
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
Non-linear-optical crystal
overview of the laser and non-linear optical properties of calcium-gadolinium-oxo-borate $Ca_4GdO(BO_3)_3$ 401
Nonlinear optics
passively *Q*-switched Nd:YAG microchip lasers and applications 392
Nuclear resonances (E)
NMR study of lanthanide (III) nitrate complexes in CMPO/TBP systems 151

Optical properties
spectroscopic study of neodymium soaps in 1-pentanol 387
Raman and X-ray diffraction studies of terbium trichloride: phase characterization and temperature relationship 440
Optical spectroscopy
near-infrared to visible photon upconversion processes in lanthanide doped chloride, bromide and iodide lattices 307
Optical transitions
optical transitions probabilities of Dy^{3+} ions in fluoroindate glass 355
Order–disorder effects
disorder and correlations in extended superconducting nanostructures 245
Organolanthanides
synthesis and characterization of chlorovinylcyclopentadienyl lanthanides 178
Orthorhombic distortion
magnetism of $RCaCrO_4$ (R: Pr, Nd, Sm and Eu) oxides 293
Outer sphere complexes
Eu(III) complexation constants with glutamine and serine in aqueous methanol 112
Oxygen storage capacity
preparation of ceria–zirconia sub-catalysts for automotive exhaust cleaning 49
microstructure and oxygen release properties of catalytic alumina-supported CeO_2–ZrO_2 powders 56
Oxyphosphates
synthesis and characterization of Na_2GdOPO_4 and Na_2LaOPO_4 416

Palladium
hydrogenation behavior of propyne on supported Eu–Pd and Yb–Pd bimetallic catalysts with anomalous hydrogen uptake 514
Paramagnetic susceptibility
simulation of the paramagnetic susceptibility in rare earth oxychlorides 498
Pechini
a new procedure to obtain Eu^{3+} doped oxide and oxosalt phosphors 316
Pentamethylcyclopentadienyl
C_5Me_5/ER-Ligated samarium(II) complexes (ER=OAr, SAr, NR^1R^2): a new type of olefin polymerization catalysts 75
Phase diagrams
magnetic phase diagram of flux-grown single crystals of CeSb 505
Phase transition
dynamic modulus relaxation of $ErBa_2Cu_3O_{6+x}$ near the orthorhombic to tetragonal phase transition at 200 kHz 262
Phase transitions
a novel principle for cooling by adiabatic pressure application in rare-earth compounds 228
competing ground states in heavy-fermion materials 239
magnetostriction of Dy and Ho studied by X-ray diffraction 276
evolution of the magnetic behavior of the Co subsystem in YCo_3 caused by small variations in stoichiometry and Al substitution 285
Raman and X-ray diffraction studies of terbium trichloride: phase characterization and temperature relationship 440
Phosphate
geomicrobiological controls on light rare earth element, Y and Ba distributions during granite weathering and soil formation 30
Phosphor
a new procedure to obtain Eu^{3+} doped oxide and oxosalt phosphors 316

Photoconductivity
electron transfer processes in rare earth doped insulators 198
Photoluminescence
near infrared (1.54 μm) luminescence properties of erbium doped gallium nitride 331
luminescent properties of diketonates of trivalent europium with dimethyl sulfoxide 336
Picrates
synthesis and structure of lanthanide(III) picrate complexes with 1,3-dithiane-1-oxide 162
Plutonium
cerium, uranium, and plutonium behavior in glass-bonded sodalite, a ceramic nuclear waste form 42
Podate
tridentate binding units as structural patterns for the design of nine-coordinate lanthanide building blocks with predetermined properties 94
Polarizability
the energy matrix using determinantal product states applied to Ho:YAG 280
the crystal dependent open-shell polarizability of F-elements: higher order contributions 345
Polishing agent
the study of process production of polishing powder based on cerium dioxide 421
Polymer
a new procedure to obtain Eu^{3+} doped oxide and oxosalt phosphors 316
Polyoxometalates
a new spectrophotometric method for the determination and simultaneous determination of tungsten and molybdenum in polyoxometalates and their Ln(III) complexes 132
Pressure
competing ground states in heavy-fermion materials 239
Properties
synthesis and properties of colloidal lanthanide-doped nanocrystals 191
Pybox
lanthanide complexes with C_2 symmetric ligands for use in enantioselective organic synthesis 173
Pyrazine-*N*-oxide
hydrated neodymium(III) and europium(III) picrate complexes with pyrazine-*N*-oxide 116
Pyrazolylborate
the use of pyrazolylborates as ancillaries for lanthanide complexes 83

Q-switched laser
passively *Q*-switched Nd:YAG microchip lasers and applications 392
Quasicrystals
magnetic properties of icosahedral R–Mg–Zn quasicrystals (R=Y, Tb, Dy, Ho and Er) 223

Racemic lanthanide complexes
the measurement of circularly polarized luminescence from racemic lanthanide complexes prepared in sol-gels 325
Raman spectroscopy
a Raman spectroscopic study of rare earth mixed oxides 340
Rare-earth
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
the energy matrix using determinantal product states applied to Ho:YAG 280
Rare earth complexes
emission quantum yield of europium (III) mixed complexes with thenoyltrifluoroacetonate and some aromatic ligands 364
Rare-earth compounds
a novel principle for cooling by adiabatic pressure application in rare-earth compounds 228
Rare earth dopants
the role of rare earth dopants in nanophase zirconia catalysts for automotive emission control 60
Rare earth elements
kinetic study of the thermal decomposition of the compound of terbium(III) trifluoromethanesulfonate and hexamethylphosphoramide (HMPA) employing both Zsakó's and nonlinear methods 142
synthesis and properties of some insoluble high-temperature neodymium ceramic compounds 426
Rare earth germanates
measurement and simulation of the energy levels of $R=Pr^{3+}$ and Nd^{3+} in $GaRGe_2O_7$ 349
Rare earth halides
alkaline earth/rare earth halides and related systems 409
Rare-earth metal carbide halides
superconductivity in layered lanthanum carbide halides: $La_2C_2(X,X')_2$ (X,X′=Cl, Br, I) 257
Rare earth oxychlorides
simulation of the paramagnetic susceptibility in rare earth oxychlorides 498
Rare earth–silicide–germanides
the nonpareil $R_5(Si_xGe_{1-x})_4$ phases 214
Rare earths
stilbazolium dyes containing rare-earth ions 125
mesomorphic lanthanide complexes with azomethine ligands 146
trivalent rare earth ion conduction in the scandium tungstate type structure 303
spectroscopic study of neodymium soaps in 1-pentanol 387
synthesis and characterization of Na_2GdOPO_4 and Na_2LaOPO_4 416
an investigation of the rare-earth telluride system $BaLn_2Te_4$ (Ln= Sm–Tm, Y): syntheses, crystal structures, and magnetic properties 432
$RCaCrO_4$ oxides
magnetism of $RCaCrO_4$ (R: Pr, Nd, Sm and Eu) oxides 293
$RCrSb_3$
investigation of the ferromagnetism in $RCrSb_3$ (R=La, Ce, Pr, Nd) 265
Recognition
tridentate binding units as structural patterns for the design of nine-coordinate lanthanide building blocks with predetermined properties 94
REE
geomicrobiological controls on light rare earth element, Y and Ba distributions during granite weathering and soil formation 30
Resistivity
investigation of the ferromagnetism in $RCrSb_3$ (R=La, Ce, Pr, Nd) 265
Resonant X-ray magnetic scattering
resonant X-ray magnetic scattering: antiferromagnetic metals 472

Samarium
the use of pyrazolylborates as ancillaries for lanthanide complexes 83
Scanning electron microscopy
a Raman spectroscopic study of rare earth mixed oxides 340
Schiff base
mesomorphic lanthanide complexes with azomethine ligands 146
Self-assembly
tridentate binding units as structural patterns for the design of nine-coordinate lanthanide building blocks with predetermined properties 94

Self-frequency-doubling laser
overview of the laser and non-linear optical properties of calcium-gadolinium-oxo-borate $Ca_4GdO(BO_3)_3$ 401
Serine
Eu(III) complexation constants with glutamine and serine in aqueous methanol 112
Simultaneous determination of Mo(VI) and W(VI)
a new spectrophotometric method for the determination and simultaneous determination of tungsten and molybdenum in polyoxometalates and their Ln(III) complexes 132
SiO_2
thermoluminescence properties of SiO_2: Al, Eu 320
Smectic mesophases
mesomorphic lanthanide complexes with azomethine ligands 146
Soft donors
aqueous complexation of trivalent lanthanide and actinide cations by *N,N,N′,N′*-tetrakis(2-pyridylmethyl)ethylenediamine 137
Sol-gels
the measurement of circularly polarized luminescence from racemic lanthanide complexes prepared in sol-gels 325
Solid electrolyte
trivalent rare earth ion conduction in the scandium tungstate type structure 303
a solid oxide fuel cell based on Sr- and Mg-doped $LaGaO_3$ electrolyte: the role of a rare-earth oxide buffer 454
Solid oxide
a solid oxide fuel cell based on Sr- and Mg-doped $LaGaO_3$ electrolyte: the role of a rare-earth oxide buffer 454
Solid solutions
a Raman spectroscopic study of rare earth mixed oxides 340
Solid-state compounds
an investigation of the rare-earth telluride system $BaLn_2Te_4$ (Ln= Sm–Tm, Y): syntheses, crystal structures, and magnetic properties 432
Solid-state laser
passively *Q*-switched Nd:YAG microchip lasers and applications 392
Solvatochromism
stilbazolium dyes containing rare-earth ions 125
Solvent extraction
solvent extraction separation of uranium (VI) with acetatecalix[*n*]arene and β-diketone (HTTA) 524
Spectrophotometry
a new spectrophotometric method for the determination and simultaneous determination of tungsten and molybdenum in polyoxometalates and their Ln(III) complexes 132
Spectroscopic probes
trivalent lanthanide ions: versatile coordination centers with unique spectroscopic and magnetic properties 66
Spectroscopy
synthesis and structure of lanthanide(III) picrate complexes with 1,3-dithiane-1-oxide 162
spectroscopic study of neodymium soaps in 1-pentanol 387
Spin dynamics
magnetic fluctuations in $CeCu_{6-x}Au_x$ at the nonmagnetic–magnetic quantum phase transition 480
Spin dynamics (D)
neutron and X-ray scattering studies of magnetism in non-superconducting $PrBa_2Cu_3O_{6+x}$ 489
Spin glass
magnetic properties of icosahedral R–Mg–Zn quasicrystals (R=Y, Tb, Dy, Ho and Er) 223
Stability
the formation and stability of $[EuP_2W_{30}O_{110}]^{12-}$ and $[AmP_2W_{30}O_{110}]^{12-}$ 509
Stability constants
aqueous complexation of trivalent lanthanide and actinide cations by *N,N,N′,N′*-tetrakis(2-pyridylmethyl)ethylenediamine 137
Stilbazolium
stilbazolium dyes containing rare-earth ions 125
Structure
hydrated neodymium(III) and europium(III) picrate complexes with pyrazine-*N*-oxide 116
synthesis, characterization and structure of lanthanide nitrate complexes with 2-azacyclononanone (AZA) 168
Structures
alkaline earth/rare earth halides and related systems 409
Superconductivity
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
superconductivity in layered lanthanum carbide halides: $La_2C_2(X,X')_2$ (X,X′=Cl, Br, I) 257
Superconductors
disorder and correlations in extended superconducting nanostructures 245
Supramolecular chemistry
trivalent lanthanide ions: versatile coordination centers with unique spectroscopic and magnetic properties 66
Susceptibility
superconductivity in layered lanthanum carbide halides: $La_2C_2(X,X')_2$ (X,X′=Cl, Br, I) 257
Synergistic extraction
solvent extraction separation of uranium (VI) with acetatecalix[*n*]arene and β-diketone (HTTA) 524
Synthesis
synthesis and properties of colloidal lanthanide-doped nanocrystals 191
an investigation of the rare-earth telluride system $BaLn_2Te_4$ (Ln= Sm–Tm, Y): syntheses, crystal structures, and magnetic properties 432

TBP
NMR study of lanthanide (III) nitrate complexes in CMPO/TBP systems 151
Tellurides
an investigation of the rare-earth telluride system $BaLn_2Te_4$ (Ln= Sm–Tm, Y): syntheses, crystal structures, and magnetic properties 432
Temperature
a spectroscopic investigation of temperature effects on solution complexation in the Eu^{3+}–acetate system 37
Thenoyltrifluoroacetonate
luminescent properties of diketonates of trivalent europium with dimethyl sulfoxide 336
Thenoyltrifluoroacetone
solvent extraction separation of uranium (VI) with acetatecalix[*n*]arene and β-diketone (HTTA) 524
Thermal annealing
effects of thermal annealing on spectroscopic properties of Eu^{3+} in $Sr_{1-x}B_xNb_2O_6$ films 360
Thermal behavior
syntheses, crystal structures, and thermal behavior of the rare earth amidosulfates $M(NH_2SO_3)_3{\cdot}2H_2O$ (M=Pr, Nd, Sm) 445
Thermal decomposition
kinetic study of the thermal decomposition of the compound of terbium(III) trifluoromethanesulfonate and hexamethylphosphoramide (HMPA) employing both Zsakó's and nonlinear methods 142
Thermal expansion
competing ground states in heavy-fermion materials 239
Thermal expansion coefficients
hydrothermal synthesis and properties of $Ce_{1-x}Eu_xO_{2-\delta}$ solid solutions 465
Thermoluminescence
thermoluminescence properties of SiO_2: Al, Eu 320

Thiolate
C_5Me_5/ER-Ligated samarium(II) complexes (ER=OAr, SAr, NR^1R^2): a new type of olefin polymerization catalysts 75
Three-way catalyst
microstructure and oxygen release properties of catalytic alumina-supported CeO_2–ZrO_2 powders 56
Transition intensities
fitting of parameters to represent the circular dichroism and transition intensities of $4f^N$–$4f^N$ transitions of lanthanide ions 383
Trifluoroacetate
preparation and properties of complexes between rare earth trifluoroacetates and hexamethylphosphoramide (HMPA) 157
Trifluoromethanesulfonate
kinetic study of the thermal decomposition of the compound of terbium(III) trifluoromethanesulfonate and hexamethylphosphoramide (HMPA) employing both Zsakó's and nonlinear methods 142
Trivalent
trivalent rare earth ion conduction in the scandium tungstate type structure 303
Trivalent lanthanide ions
trivalent lanthanide ions: versatile coordination centers with unique spectroscopic and magnetic properties 66
Tungstate
trivalent rare earth ion conduction in the scandium tungstate type structure 303

Upconversion
near-infrared to visible photon upconversion processes in lanthanide doped chloride, bromide and iodide lattices 307
Uranium
cerium, uranium, and plutonium behavior in glass-bonded sodalite, a ceramic nuclear waste form 42
iron magnetism in cubic Laves phase itinerant ferromagnets 232
Uranyl ion
solvent extraction separation of uranium (VI) with acetatecalix[*n*]arene and β-diketone (HTTA) 524

Valence fluctuations
three decades of prospecting for novel electronic states and phenomena in f-electron materials 1
Vinylcyclopentadienyl
synthesis and characterization of chlorovinylcyclopentadienyl lanthanides 178

X-ray diffraction
the use of pyrazolylborates as ancillaries for lanthanide complexes 83
structures of the 1,10-phenanthroline and 2,2′-dipyridyl adducts of tris(2,6-dimethylheptane-3,5-dionato)europium(III) 121
synthesis and characterization of Na_2GdOPO_4 and Na_2LaOPO_4 416
Raman and X-ray diffraction studies of terbium trichloride: phase characterization and temperature relationship 440
X-ray diffractions
magnetostriction of Dy and Ho studied by X-ray diffraction 276
X-ray magnetic scattering (E)
neutron and X-ray scattering studies of magnetism in non-superconducting $PrBa_2Cu_3O_{6+x}$ 489
X-ray structure determination
synthesis and structure of lanthanide(III) picrate complexes with 1,3-dithiane-1-oxide 162

Yates technique
beneficiation of bastnaesite by a multi-gravity separator 520
Yb lasers
overview of the laser and non-linear optical properties of calcium-gadolinium-oxo-borate $Ca_4GdO(BO_3)_3$ 401
YFe_7Al_5
$ThMn_{12}$-type magnetic $ErFe_7Al_5$ and non-magnetic YFe_7Al_5 studied by X-ray and neutron diffraction 270
Young's modulus
dynamic modulus relaxation of $ErBa_2Cu_3O_{6+x}$ near the orthorhombic to tetragonal phase transition at 200 kHz 262

Zirconium oxide
preparation of ceria–zirconia sub-catalysts for automotive exhaust cleaning 49
ZrO_2
microstructure and oxygen release properties of catalytic alumina-supported CeO_2–ZrO_2 powders 56
the role of rare earth dopants in nanophase zirconia catalysts for automotive emission control 60
Zsakó's and nonlinear methods
kinetic study of the thermal decomposition of the compound of terbium(III) trifluoromethanesulfonate and hexamethylphosphoramide (HMPA) employing both Zsakó's and nonlinear methods 142